3Com® AirConnect® 9550 11n 2.4+5GHz PoE Access Point
3Com AirConnect 9150 11n 2.4GHz PoE Access Point

DATA SHEET

Secure and reliable, high-speed 11n wireless connectivity in a cost-effective PoE access point with advanced business-class features

OVERVIEW

Reliable, secure, high-speed IEEE 802.11n wireless networking has just been made practical. These innovative and cost-effective Power over Ethernet (PoE) access points—compliant with 802.11n Draft 2.0— are suitable for businesses of all sizes and are available in two configurations:

- the 3Com® AirConnect® 9550 dual-radio access point has both 2.4 and 5 GHz 802.11n radios allowing it to support simultaneous 2.4 GHz 11b/g/n and 5 GHz 11a/n wireless connections
- the 3Com AirConnect 9150 single-radio access point has a 2.4 GHz 11n radio allowing it to support 2.4 GHz 11b/g/n wireless connections

Either access point is powered using a single, standard IEEE 802.3af PoE connection, eliminating the need for proprietary PoE injectors or bulky and inefficient external power supplies.

The access points support the latest, most effective authentication techniques to thwart intruders and simplify network management. Advanced network security with Wi-Fi Protected Access (WPA2™), Advanced Encryption Standard (AES) and IEEE 802.1X authentication protect communication over the wireless LAN and help ensure only authorized users access the network.

High-level security and network management include support for multiple SSIDs, IEEE 802.1Q VLANs, and secure WDS bridging.

Advanced Multiple-Input Multiple-Output (MIMO) technology provides enhanced wireless range.

KEY BENEFITS

ENABLING WIRELESS FREEDOM

Take advantage of the freedom of high-speed networking without wires with the Wi-Fi® CERTIFIED™ 3Com AirConnect 9150 and 9550 access points. Wireless LANs (WLANS) cost-effectively extend secure mobile access to employees, contractors and guests, creating a more flexible environment that supports workgroup collaboration and mobile applications such as wireless VoIP, scanners and other handheld IP technology.

in front: 3Com AirConnect 9550 11n 2.4+5GHz PoE Access Point, AirConnect 9150 11n 2.4GHz PoE Access Point

KEY BENEFITS
(CONTINUED)

SUPPORTS COMPLETE IEEE 802.11 STANDARDS

The 3Com AirConnect 9550 supports all IEEE 802.11 2.4 and 5 GHz networking standards—11a, 11b, 11g and 11n Draft 2.0.

The AirConnect 9150 supports the 2.4 GHz networking standard—the more common 11b, 11g and 11n draft 2.0.

PROVIDES DEPLOYMENT FLEXIBILITY WITH POWER PROVISIONING OPTIONS

PoE provides flexible installation options. Powering the APs with standard IEEE 802.3af PoE makes it easier than ever to overcome installation problems by eliminating the need for an AC power plug at each AP. Any 3Com PoE switch or other 802.3af-compliant PoE product supplies both power and data to the access point through the same Category 5 or 6 Ethernet cable, useful and more economical in hard-to-wire locations.

SECURES AND PROTECTS WIRELESS COMMUNICATIONS

3Com offers one of the most robust suites of standards-based security on the market today. To protect wireless data, WPA2 with 128-bit AES encryption provides the latest, toughest standards-based security; WEP encryption is also supported for legacy clients.

To protect against unauthorized network access, the access points support IEEE 802.1X authentication and authorization through backend RADIUS servers using EAP-TLS, PEAP and EAP-TTLS. MAC address access control and peer-to-peer client restrictions provide further security options.

PROVIDES SECURE ACCESS CONTROL

Configure up to four SSIDs per radio with different security profiles for different groups of users. IEEE 802.1Q-compliant VLAN support works with the multiple SSID feature to protect company confidential files from those who should not have access, such as guest workers.

SOLVES COMPLEX CONNECTIVITY PROBLEMS

Wireless Distribution System (WDS) bridging solves complex wireless connectivity problems. The access point supports both point-to-point and point-to-multipoint WDS links for flexible network deployment across floors or between nearby buildings.

HIGH PERFORMANCE AND RELIABILE

Desktop or notebook users can wirelessly access network resources and applications at 802.11n Draft 2.0 speeds, ideal for multimedia applications. A host of features and MIMO technology ensure reliable wireless connectivity and excellent range and throughput. Wi-Fi certification helps ensure interoperability with other vendors.

3Com backs each product with global sales, service and support along with technology, financial and operational strength.

SIMPLIFIED SET UP; USE RIGHT OUT OF THE BOX

Setup and operation are designed for easy deployment. In addition to SSID and VLAN configuration flexibility, the AP discovery utility and Web interface simplify secure setup. Preset defaults get you up and running quickly.

BACKWARD COMPATIBILITY

The AirConnect 9550 is compatible with existing IEEE 802.11a, b and g networks. The AirConnect 9150 is compatible with existing IEEE 802.11b and g networks.

FEATURES AND BENEFITS

FLEXIBLE HIGH-SPEED CONNECTIVITY

Multiple-Input Multiple-Output (MIMO)	Advanced MIMO technology provides enhanced wireless range and coverage area for improved roaming and ubiquity
Internal antennas	Three built-in antennas per radio allow a compact and aesthetic design that is ideal for wall-mounting in professional office spaces
Support for external antennas	Three R-SMA connectors allow you to add optional external antennas for increased range in bridging applications
WiFi Multimedia (WMM®) support	Improves the user experience for audio, video and voice applications
Wi-Fi CERTIFIED	a†/b/g/n certification helps ensure interoperability with Wi-Fi CERTIFIED products from other vendors
High-speed 802.11 standards support	Support for 802.11n Draft 2.0 provides the highest possible wireless speeds Provides complete access to 2.4 and 5† GHz IEEE 802.11a†/b/g and 802.11n Draft 2.0 wireless networks
Backward compatible with 11b/g users	Supports high speeds while protecting existing investments

ROBUST SECURITY FEATURES

IEEE 802.1X network access control	IEEE 802.1X network access control and EAP authentication provide the latest, most effective authentication techniques to help thwart intruders and simplify network management
WPA2/WPA™ (Wi-Fi Protected Access) and WEP (Wired Equivalent Privacy)	Supports advanced 128-bit WPA/WPA2 encryption, and 40-/64- and 128-bit WEP encryption for legacy wireless clients
Multiple SSID support with SSID isolation	Create SSIDs with specific settings for each group of wireless users to segment traffic; SSIDs can be bridged together or isolated
MAC address access control	Filters MAC addresses on devices so that only trusted clients gain access to the WLAN
802.1Q VLAN support	Groups users according to data or traffic requirements to segment traffic flow based on business priorities.

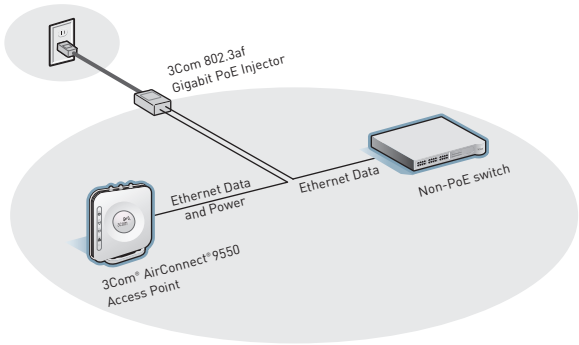
INSTALLATION AND MANAGEMENT EASE

Web browser-based administration	Familiar browser interface lets you configure and manage APs from anywhere on the network; preset defaults simplify setup and operation
Access point discovery utility	Automatically discovers AP devices to simplify configuration and management (PCs with Windows based operating systems only).
PoE support	Expands installation options by eliminating the need for power adapters and AC outlets for APs
WDS bridging	Access points can function as bridges to join LAN segments and support point-to-point or point-to-multipoint configuration modes
SNMP support	Enables the AP to be centrally managed by popular standards-based network management applications using SNMP v1 and v2c
Syslog support	Enables the access point to be centrally monitored by sending data to the network Syslog server
Multiple mounting options	The access point can be mounted in any of three convenient manners: wall-mount, desktop mount or ceiling mount

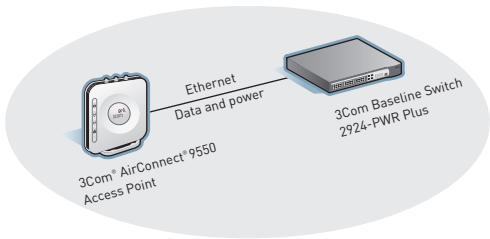
† 5 GHz and 802.11a support available with the AirConnect 9550.

PoE Support

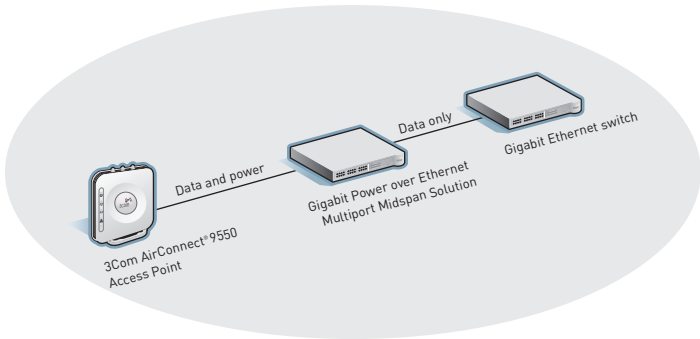
Choose from several power options to match your installation needs. First, the PoE access point can be powered with any standard 802.3af PoE injector such as 3CNJPSE-GIG. Note that the PoE injector should support gigabit links for maximum performance.



The access point can also be powered using an 802.3af-compliant PoE Gigabit switch. The switch provides both data and power through the Ethernet cable.

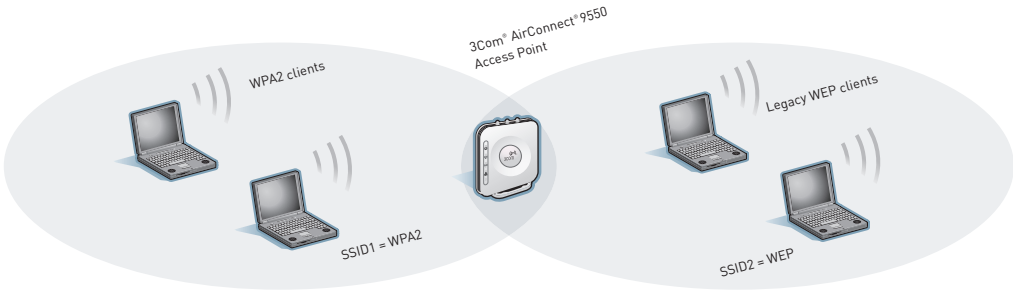


The Midspan solution distributes power to the PoE access point over existing switch connections, seamlessly extending network connectivity into hard-to-wire locations.



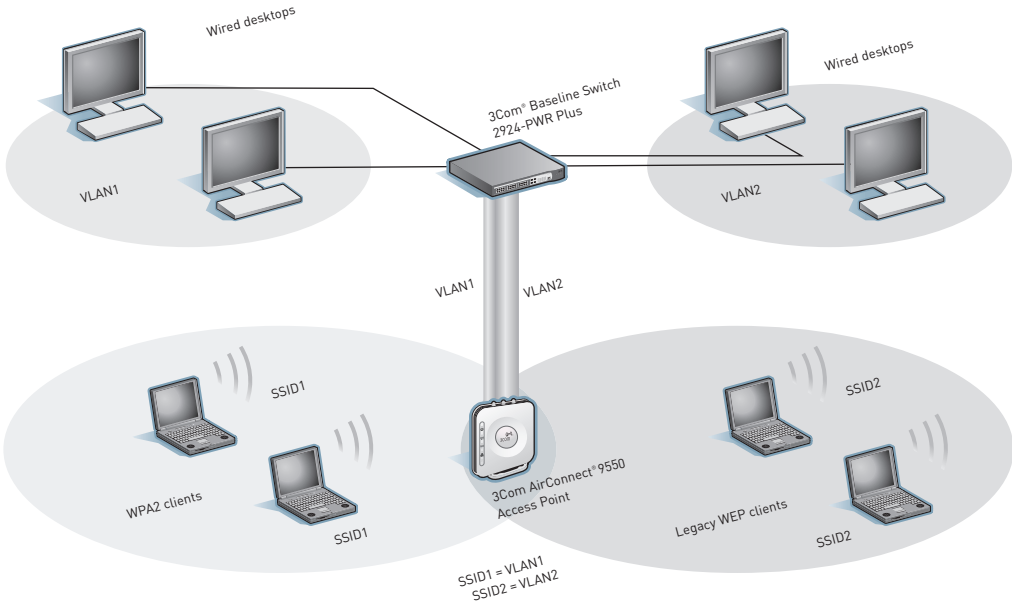
Multiple SSID Support

Multiple SSID support enables many flexible configurations, including supporting multi-generation clients simultaneously—without losing the performance available for 11n clients or those with lower levels of security such as legacy WEP devices.



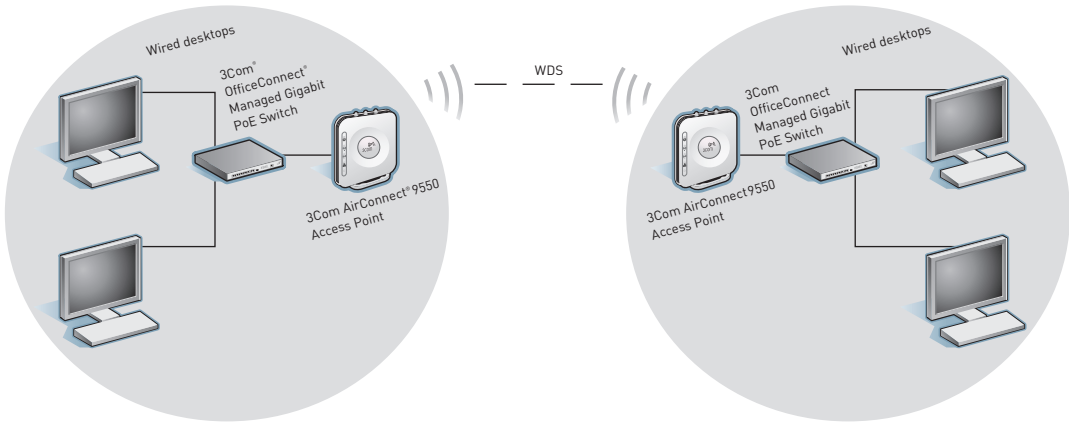
Multiple SSID and VLAN Support

With a 3Com AirConnect Access Point, a single Ethernet link supports multiple VLAN traffic tunnels. Easily segment users that need priority access or different levels of security.



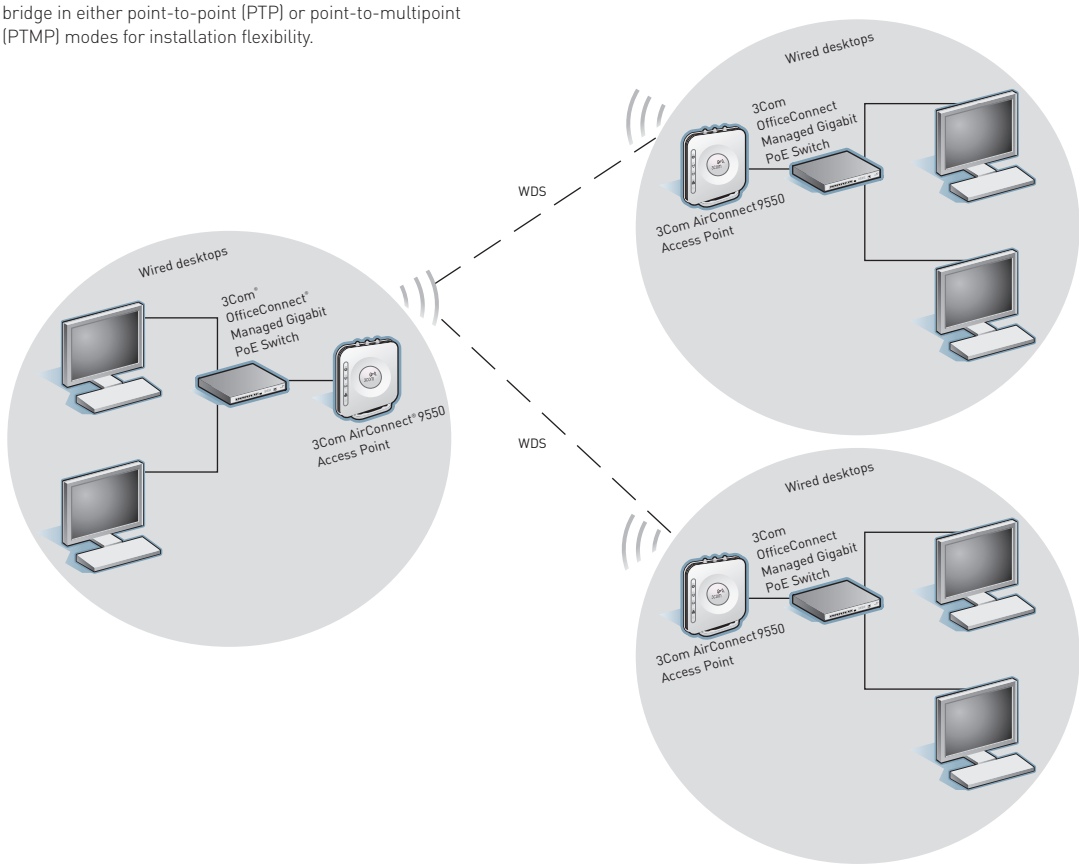
Point-to-Point WDS Link

The 3Com AirConnect Access Point connects wired LANs with a Wireless Distribution System (WDS) link. The APs act as wireless bridges, forwarding traffic between LANs.



Point-to-Multipoint WDS Link

A 3Com AirConnect Access Point can function as a wireless bridge in either point-to-point (PTP) or point-to-multipoint (PTMP) modes for installation flexibility.



SPECIFICATIONS

Information in this section is applicable to both the 3Com AirConnect 9550 and the AirConnect 9150, unless stated otherwise.

MEDIA INTERFACES
IEEE 802.11a, 802.11b, 802.11g, 802.11n draft 2.0 (802.11a: AirConnect 9550 only)

1 RJ-45 10BASE-T/100BASE-TX/1000BASE-T port with IEEE 802.3af PoE, auto-negotiating

RJ-45 console port

DATA RATES
802.11a
54, 48, 36, 24, 18, 12, 9 and 6 Mbps (AirConnect 9550 only)

802.11g
54, 48, 36, 24, 18, 12, 9 and 6 Mbps

802.11b
11, 5.5, 2 and 1 Mbps

802.11n
MCS 0 to 15 for HT20MHz, 6.5-130 Mbps

MCS 0 to 15 for HT40MHz, 13.5-270 Mbps

FREQUENCY BAND
802.11a: 5.15-5.85 GHz (AirConnect 9550 only)

802.11b/g: 2.4-2.484 GHz

802.11n: 2.4-2.484 GHz, and 5.15-5.85 GHz (AirConnect 9550 only)

OPERATING CHANNELS:
Channel availability depends on local country regulations. Wireless LAN system administrator must choose correct country of operation. Channels are then automatically configured to comply with specified country regulations.

MODULATION TECHNIQUE
802.11b: DSSS (Direct Sequence Spread Spectrum)

802.11a/g/n: OFDM (Orthogonal Frequency Division Multiplexing) and DSSS

MEDIA ACCESS PROTOCOL
CSMA/CA with ACK

OPERATING VOLTAGE
PoE: 48V DC

POWER CONSUMPTION
10.0 watts of PoE power with both radios active

STANDARDS CONFORMANCE
IEEE 802.1X, 802.3ab, 802.3af, 802.3i, 802.3u, 802.11a (AirConnect 9550 only), 802.11b, 802.11d, 802.11g, 802.11n Draft 2.0

WMM, WPA2/WPA, Wi-Fi CERTIFIED

ANTENNA
3 internal per radio; 2T x 3R

Optional external antennas also available

SECURITY
WPA2- Enterprise

WPA2- Personal

WPA- Personal

WPA- Enterprise

AES/TKIP

WEP 64-/128-bit encryption

IEEE 802.1X EAP types:

EAP-TLS, EAP-TTLS, PEAP

MANAGEMENT
SNMP v1 and v2c

Remote management with Web browser over HTTP

Command line interface over Telnet

Access point discovery utility

LEDS
Power, LAN, 2.4 GHz radio, 5 GHz radio (AirConnect 9550 only)

DIMENSIONS AND WEIGHT
Length: 19.7cm (7.8 in)

Width: 19.7cm (7.8 in)

Height: 4.5 cm (1.8 in)

Weight: 1 kg (2.2 lb)

REGULATORY/AGENCY APPROVALS
Safety
UL/CSA 60950-1

EN/IEC 60950-1

Radio
FCC Part 15.247

RSS-210

EN 300 328 v1.7.1

EMC
FCC Part 15 Subpart B

EN 301 489-17

SAR
FCC Guideline for Human Exposure IEEE C95.1

EN 50392

ENVIRONMENTAL RANGES
Operating temperature: -10 to 40°C (14 to 122°F)

Storage temperature: -40 to 70°C (-40 to 158°F)

Humidity: 10 to 95% non-condensing

SYSTEM REQUIREMENTS
Computer with an Ethernet interface configured for Internet communication

Operating system that supports an Ethernet connection with an IP stack

Installation CD Discovery Application requires Windows XP, 2000 or Vista

PACKAGE CONTENTS
3Com AirConnect 11n PoE Access Point

Wall/desktop mounting stand

Screw kit

Quick Install Guide

CD-ROM with discovery utility

WARRANTY AND OTHER SERVICES
Three Year Limited Hardware Warranty

Limited Software Warranty for 90 days

90 days of telephone technical support

Refer to **www.3com.com/warranty** for details.

ORDERING INFORMATION

PRODUCT DESCRIPTION	MODEL	3COM SKU
3Com AirConnect 9550 11n 2.4+5GHz PoE Access Point	WL-605	3CRWE955075
3Com AirConnect 9150 11n 2.4GHz PoE Access Point	WL-604	3CRWE915075
Optional Accessories		
3Com 802.3af Gigabit PoE Injector		3CNJPSE-GIG
3Com Ceiling Mount for AirConnect 11n Access Points		3CAPMOUNT
Optional Antennas		
3Com 2dBi Dual-Band Omni Antenna Kit		3CWE590
3Com 6/8dBi Dual-Band Omni Antenna		3CWE591
3Com 18/20dBi Dual-Band Panel Antenna		3CWE596
3Com 8/10dBi Dual-Band Panel Antenna		3CWE598
Optional Antenna Cables		
3Com Ultra Low Loss 6 Foot Antenna Cable		3CWE580
3Com Ultra Low Loss 20-Foot Antenna Cable		3CWE581
3Com Ultra Low Loss 50-Foot Antenna Cable		3CWE582
3Com R-SMA to SMA 6" Antenna Cable		3CWE586
3Com Global Services		
3Com Wireless LAN Site Survey, Network Health Check, Installation Services and Express[SM] Maintenance		www.3com.com/services_quote
3Com University Courses		www.3com.com/3comu

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